NC/QC/YD/2019-20/W6-PT-CB4A

Date: 16-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-12-19	16-01-20	28	22500	500	22.22	**22.52**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	505	22.44	

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K.R

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/YD/2019-20/W6-PT-K1

Date: 23-12-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.35	22.95	**22.83**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.29	22.10		
3	003	3.39	23.45		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.49	**4.49**
2	002	4.38	
3	003	4.61	

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KIRAN. R
M.E. (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-K2

Date: 26-12-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.31	22..40	**22.98**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.39	23.45		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.59	**4.64**
2	002	4.71	
3	003	4.64	

NEWZEN CONSULTANT * BANGALORE *

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

KIRAN. R
M.E, (Civil-Engg)

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-K3

Date: 28-12-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.20	**22.15**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.24	21.45		
3	003	3.27	21.80		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	5.05	**5.82**
2	002	4.74	
3	003	4.69	

NEWZEN CONSULTANT * BANGALORE *

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

KIRAN. R
M.E, (Civil-Engg)

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL :newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-G1

Date: 20-12-2019

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**96.70**	70-100
9.50	**63.80**	50-80
4.75	**54.45**	40-65
2.36	**41.60**	30-50
0.425	**13.10**	10-15
0.075	**2.85**	<5

NEWZEN CONSULTANT * BANGALORE *

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Date: 20-12-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.40 %**	Not more than 2.0 %
2.	Liquid Limit, %	**19.65**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.51**	----------
5.	Aggregate Impact Value, %	**26.84**	Not more than 40.00 %

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KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-C3

Date: 21-12-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**290 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.76 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.83 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.30 N/Sq mm**	Shall not be less than 27 N/Sqmm

NEWZEN CONSULTANT BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

KIRAN. R
M.E, (Civil-Engg)

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-PCC2 **Date: 21-12-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	58.65	0 -20	30- 70
10mm	27.20	0 -5	10- 35
4.75mm	4.35	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.40	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.25	60-95	75-100	85-100	
01.18	76.90	30-70	55-90	75-100	
600.mic	40.35	15-34	35-59	60-79	
300.mic	23.65	5-20	8-30	12-40	
150.mic	7.80	0-10	0-10	0-10	

NEWZEN CONSULTANT BANGALORE

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-C4 **Date: 23-12-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.82 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.97 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.59 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/YD/2019-20/W6-PT-PCC3 **Date: 23-12-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.25	0 -20	30- 70
10mm	32.70	0 -5	10- 35
4.75mm	4.45	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.90	60-95	75-100	85-100	
01.18	71.40	30-70	55-90	75-100	
600 mic	48.05	15-34	35-59	60-79	
300 mic	14.75	5-20	8-30	12-40	
150 mic	7.40	0-10	0-10	0-10	

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Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/YD/2019-20/W6-PT-CB5

Date: 02-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-19	02-01-20	07	22500	550	24.44	**24.07**
	002	"	"	"	"	535	23.78	
	003	"	"	"	"	540	24.00	

NEWZEN CONSULTANT BANGALORE

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-CB6 **Date: 02-01-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-12-19	02-01-20	07	22500	545	24.22	**24.15**
	002	"	"	"	"	555	24.67	
	003	"	"	"	"	530	23.56	

NEWZEN CONSULTANT * BANGALORE *

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/YD/2019-20/W6-PT-CB7

Date: 04-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-12-19	04-01-20	07	22500	555	24.67	**24.37**
	002	"	"	"	"	550	24.44	
	003	"	"	"	"	540	24.00	

NEWZEN CONSULTANTS * BANGALORE *

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-CB8 **Date: 04-01-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-12-19	04-01-20	07	22500	545	24.22	**24.59**
	002	"	"	"	"	560	24.89	
	003	"	"	"	"	555	24.67	

NEWZEN CONSULTANT * BANGALORE *

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-PT-CB9

Date: 06-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-12-19	06-01-20	07	22500	550	24.44	**24.44**
	002	"	"	"	"	540	24.00	
	003	"	"	"	"	560	24.89	

NEWZEN CONSULTANT * BANGALORE *

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com